

ABSTRACT

[0141] A fluid heater apparatus and method of making same includes a low porosity material, thermally conductive mass. A heat source is disposed in the thermally conductive mass for imparting heat to the mass. Fluid in a flow path through the mass absorbs heat from the mass. The thermally conductive mass is molded, cast or extruded from a material which, with the selected forming process, provides a low porosity mass. The mass may be formed of ceramic, aluminum and poltruded carbon. The mass can be cast from a material which is introduced into the casting mold in a semi-solid temperature state.